

# BİRİMLER - ÖLÇÜLER - FORMÜLLER

## ÖLÇÜLER

KUVVET BİRİMLERİ			
kg	Din	Jul/cm	N.Kg.m/s <sup>2</sup>
1	9,807.105	0,981	9,871
10,2.107	1	10-7	10 <sup>-5</sup>
10,2	107	1	102
0,102	105	0,01	1

## ELEKTROTEKNİK

$$\text{İş} = \text{Güç} \times \text{Zaman} \quad A=P \times t = U \times I \times t = \frac{U^2}{R} t \quad [\text{Ws}]$$

### İŞ BİRİMLERİ

ws=jul	kWh	Psh	kgm	mcal=WE
1	2,778.10 <sup>-7</sup>	0,377.10 <sup>-7</sup>	0.102	2,388.10 <sup>-4</sup>
3,60.10 <sup>-6</sup>	1	1,36	3,671.105	860
2,648.10 <sup>-6</sup>	0,736	1	270.103	631
4,186.103	1,163.10 <sup>-3</sup>	1,581.10 <sup>-3</sup>	426.9	1

$$\text{Güç} = \frac{\text{İş}}{\text{Zaman}} \quad P = \frac{A}{t} \quad U \times I = I \times R \quad \frac{U^2}{R} t \quad [\text{W}]$$

### GÜÇ BİRİMLERİ

watt=j/s	kW	Ps	mkp/s	kcal=WE/h
1	10 <sup>-3</sup>	0,00136	0,102	0,860
1000	1	1,36	102	860
736	0,736	1	75	631
9.81	0,00981	0,00136	0,102	0,860
1,16	1,16.10 <sup>-3</sup>	158.10 <sup>-5</sup>	0,188	1

### SİNÜSEL İŞARETLERİN DÖNÜŞTÜRME ÇARPANLARI

BİLİNEN	ORTALAMA	RMS	TEPE	TEPEDEN TEPEYE
ORTALAMA	1.0	1.11	1.57	3.14
R.M.S.	0.9	1.0	1.414	2.828
TEPE	0.637	0.707	1.0	2.0
TEPEDEN TEPEYE	0.32	0.535	0.5	1.0